

WHAT IS CLAIMED IS:

1. A computer system for reorganizing storage,  
comprising:

5 a file system for receiving a file share request;

a path rewriter operably coupled to the file system for  
rewriting a path of a file share request received by the file  
system; and

a path redirector operably coupled to the file system for  
10 redirecting the rewritten path of the file share request to  
another storage location.

2. The system of claim 1 further comprising a database  
for storing information about file share requests received by  
15 the file system.

3. The system of claim 2 wherein the database comprises  
a log file.

20 4. The system of claim 2 wherein the information stored  
comprises usage information about the file share requests.

5. The system of claim 1 wherein the file system  
comprises a distributed file system.

6. The system of claim 1 wherein redirecting the rewritten path of the file share request to another storage location comprises redirecting the rewritten path of the file share request to a storage location on the computer system.

7. A distributed computing system, comprising:  
a first server having a file system operably coupled to a path rewriter for rewriting a path of a file share request received by the file system;

a second server operably coupled to the first server, the second server having a file system; and

a path redirector operably coupled to the file system of the first server for redirecting a rewritten path of a file share request received by the first server to a share name of the second server.

8. The system of claim 7 further comprising a database operably coupled to the first server for storing information about file share requests received by the file system of the first server.

9. A computer readable medium having computer-executable components comprising the system of claim 1.

10. A method in a computer system for reorganizing storage, comprising the steps of:

aliasing the name of a legacy server to the network  
5 address of a reorganization server;  
copying the contents and permissions of a share on the legacy server to a destination server;  
creating a root with the legacy server name on the  
reorganization server; and  
10 creating a link on the legacy server root on the reorganization server to the share copied to the destination server.

11. The method of claim 10 further comprising creating a  
15 unique share name on the destination server for the share copied from the legacy server.

12. The method of claim 11 wherein the unique share name is not visible to a user.  
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13. The method of claim 11 wherein the unique share name is not visible to a client.

14. The method of claim 10 further comprising accessing the share copied to the destination server using the legacy share path.

5 15. The method of claim 10 wherein aliasing the name of a legacy server to the network address of a reorganization server comprises aliasing the name of a legacy server to the network address of a reorganization server for all naming schemes used for the legacy server.

10 16. The method of claim 10 wherein copying the contents and permissions of a share on the legacy server to a destination server comprises copying the contents and permissions of a share on the legacy server to the  
15 reorganization server.

17. The method of claim 10 wherein copying the contents and permissions of a share on the legacy server to a destination server comprises copying the contents and  
20 permissions of a share on the legacy server in a separate distributed file system namespace on the destination server.

18. The method of claim 10 further comprising:

copying the contents and permissions of another share on the legacy server to a second destination server; and

creating a link on the legacy server root on the reorganization server to the other share copied to the second  
5 destination server.

19. The method of claim 18 wherein copying the contents and permissions of another share on the legacy server to a second destination server comprises copying the contents and  
10 permissions of another share on the legacy server to the reorganization server.

20. The method of claim 10 wherein creating a root with the legacy server name on the reorganization server comprises  
15 creating a root with the legacy server name modified by prepending one or more characters to the legacy server name.

21. The method of claim 20 wherein prepending one or more characters to the legacy server name comprises prepending  
20 a hash mark to the legacy server name.

22. A computer readable medium having computer-executable instructions for performing the method of claim 10.

23. A method in a client-server computer network for accessing reorganized storage, comprising the steps of:

receiving at a server a request from a client for a relocated legacy share path name;

5       rewriting the legacy share path name by prepending the legacy share path with the server's own name;

resolving any links in the rewritten legacy share path name; and

10       responding to the client request with the share path name of the storage location of the relocated legacy share.

24. The method of claim 23 further comprising resolving an aliased legacy server name to establish a connection to the network address of a server.

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25. The method of claim 23 further comprising sending an access request to a server for a relocated legacy share path name.

20       26. The method of claim 25 wherein sending an access request to a server comprises sending a Dfs create request.

27. The method of claim 23 wherein rewriting the legacy share path comprises invoking a path rewriter to rewrite the legacy share path.

5        28. The method of claim 23 further comprising encountering a link while traversing the rewritten legacy share path.

29. The method of claim 23 wherein resolving any links  
10 in the rewritten legacy share path comprises invoking a path redirector to resolve any links in the rewritten legacy share path.

30. The method of claim 23 further comprising accessing  
15 the share path of the storage location of the relocated legacy share.

31. The method of claim 30 wherein accessing the share path of the storage location of the relocated legacy share  
20 comprises sending a Dfs create request to the network address of the storage location of the relocated legacy share.

32. The method of claim 30 wherein accessing the share path of the storage location of the relocated legacy share comprises accessing a path of a separate Dfs namespace.

5        33. The method of claim 23 further comprising encountering a Dfs reparse point while traversing the rewritten legacy share path.

34. The method of claim 33 further comprising returning  
10 a message to the client indicating the path contains a link.

35. The method of claim 34 further comprising receiving a referral request message from the client for the referral path.

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36. A computer readable medium having computer-executable instructions for performing the method of claim 23.

37. A computer system for reorganized storage,  
20 comprising:

means for receiving a file access request for a relocated legacy share;

means for rewriting the path of the file access request received; and



means for redirecting the rewritten path of the file access request to another storage location.

38. The system of claim 37 wherein the means for  
5 redirecting the rewritten path of the file access request to another storage location comprising means for resolving any links in the rewritten path of the file access request.

39. The system of claim 37 wherein the means for  
10 redirecting the rewritten path of the file access request to another storage location comprising means for redirecting the rewritten path of the file access request to a separate namespace.

15 40. The system of claim 37 further comprising means for responding to the request with the file share path of the storage location of the relocated legacy share.